

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 04249				SHEET 1 OF 1	
	DWG NO. 647.9300	REV: NC	PREPARED BY J. SOTO	DATE: 11/14/2013	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.	
	DWG TITLE: BRACKETS					
	APPROVED BY: ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF. NEXT ORDER		
TRANSACTION CODES (TC): A-ADD R-REVISE C-CREATE D-DELETE	REASON: REVISED NOTE 4					ECR: 13-037

SHEET 1, ZONE A1 IS:

NOTES: UNLESS OTHERWISE SPECIFIED

- IS** →
1. MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12.
 2. FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR: BLACK; PRETREAT PR-148 ADHESION PROMOTER, PRIME IAW MIL-P-23377J TYPE I, CLASS N.
 3. DEBURR AND BREAK ALL SHARP EDGES.
 4. IDENTIFY IAW MPP-120.
 5. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9310 LH BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
 6. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9311 SUPPORT BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
 7. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9312 BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
 8. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9313 BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
 9. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9314 RETAINER BRACKET.SLDPRT, LAST MODIFIED 09-26-11.
 10. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9315 RECEPTACLE BRACKET.SLDPRT, LAST MODIFIED 11-16-12.
 11. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9316 CROSSBAR BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
 12. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9317 RH BRACKET.SLDPRT, LAST MODIFIED 06-22-10.

RECEIVED
11/14/2013

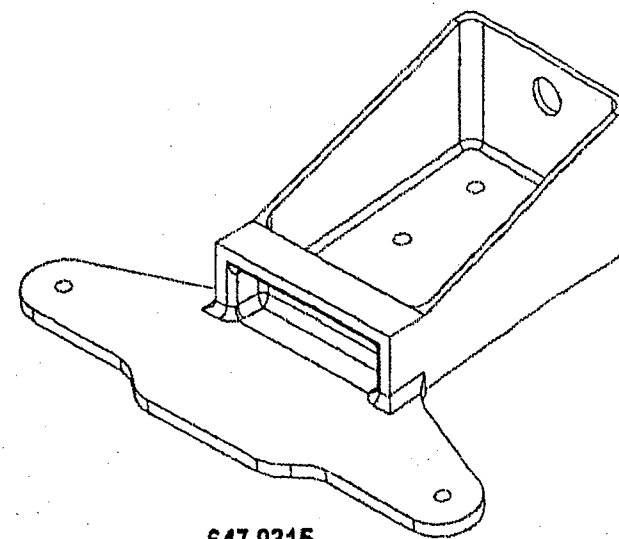
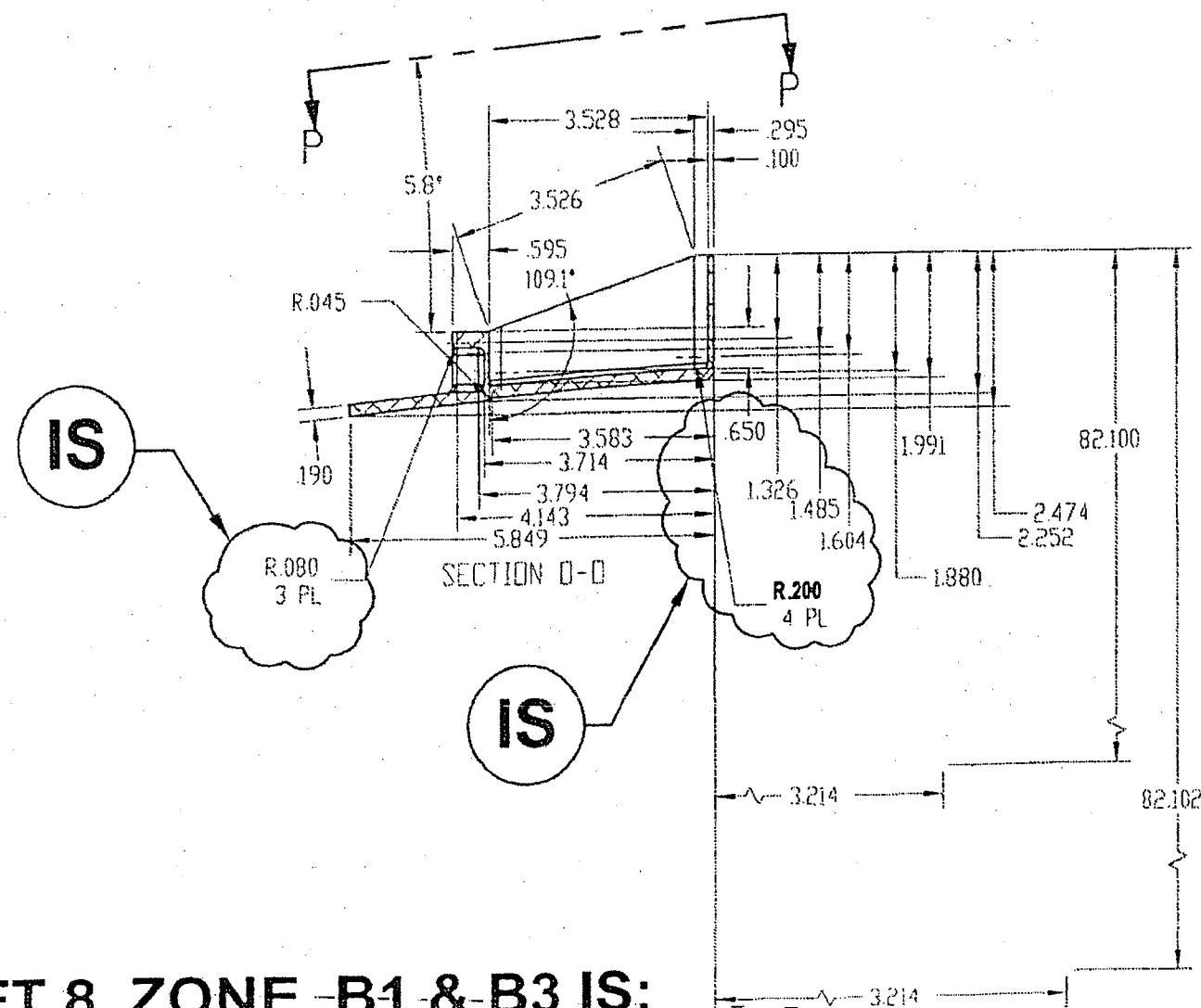
ROLLED
COPY

DOCUMENTS EFFECTED:	<input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRUCTIONS <input type="checkbox"/> ICA <input type="checkbox"/> FMS <input type="checkbox"/> BOM	CHANGE CATEGORY <input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	DER REVIEW REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03706				SHEET 1 OF 2	
	DWG NO. 647.9300	REV: N/C	PREPARED BY B. PETERS	DATE: 11/16/12	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.	
	DWG TITLE: BRACKETS					
APPROVED BY: ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: NEXT ORDER		
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: REVISED RADII ON 647.9315.			ECR: D-12-012	

SHEET 1, ZONE B4, NOTE 10 IS:

10. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9315 RECEPTACLE BRACKET.SLDPRJT, LAST MODIFIED 11-16-12.



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11/16/12

CONTROL
CCP

SHEET 8, ZONE B1 & B3 IS:

SHEET 8, ZONE A7 IS:

DOCUMENTS EFFECTED:	<input type="checkbox"/> RFMS <input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRUC <input type="checkbox"/> ICA <input type="checkbox"/> BOM	CHANGE CATEGORY <input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	DER REVIEW REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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APICAL
INDUSTRIES, INC.

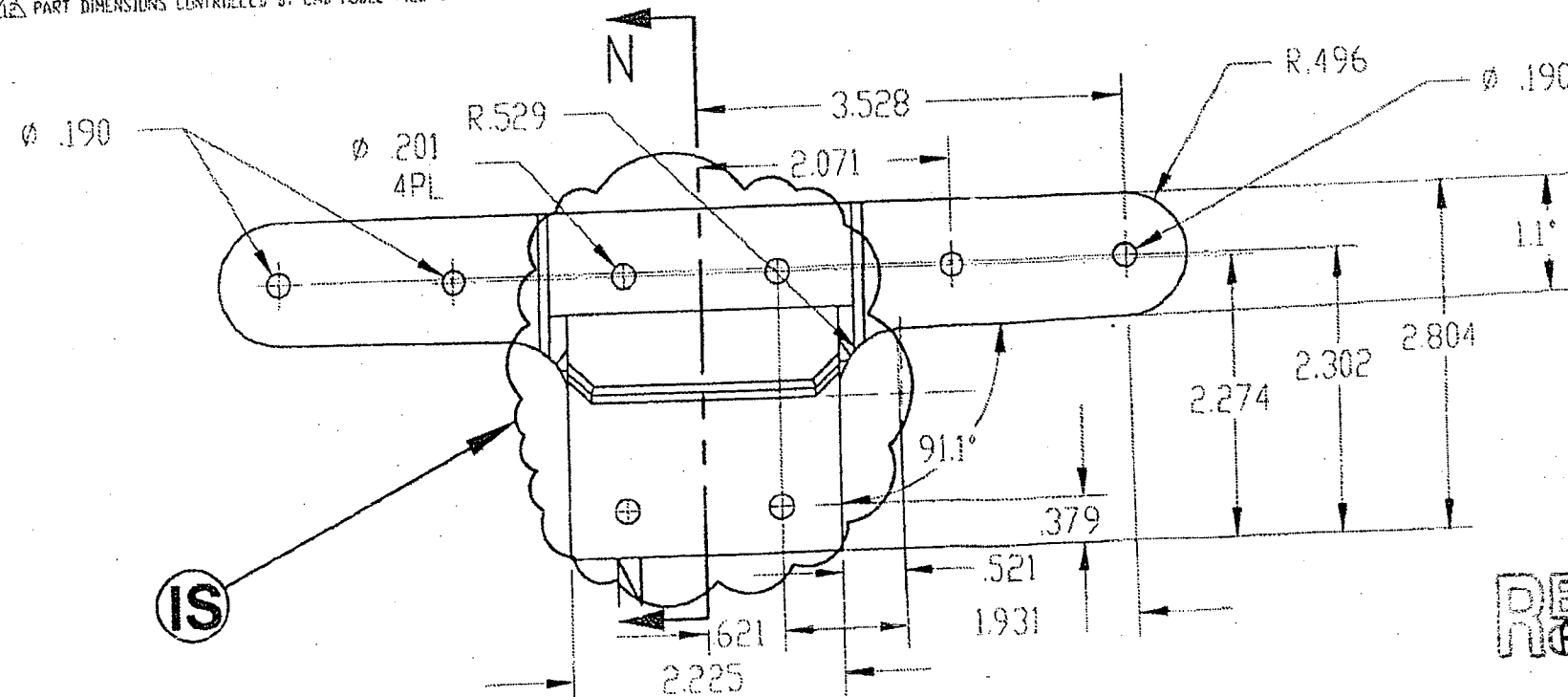
ENGINEERING CHANGE NOTICE NO. 03209				SHEET 1 OF 2	
DWG NO. 647.9300		REV: N/C	PREPARED BY A. QUAN	DATE: 11/09/11	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.
DWG TITLE: BRACKET					
APPROVED BY:	ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFFECT: CURRENT ORDER AND STOCK	
REASON: REVISED HOLE LOCATIONS ON 647.9314, ADDED HOLE 647.9315					
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE					

SHEET 1, ZONE B3:

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 7075-T651 PER AMS-CC-A-25012.
2. FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE II, CLASS 2, COLOR: BLACK; PRETREAT PR-146 ADHESION PROMOTER, PRIME IAW MIL-P-23377J TYPE I, CLASS N.
3. DEBURR AND BREAK ALL SHARP EDGES
4. IDENTIFY IAW MPP-120 LASER ENGRAVE CENTURY GOING 12 POINT P/N AND REVISION
5. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9310 LH BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
6. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9311 SUPPORT BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
7. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9312 BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
8. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9313 BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
9. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9314 RETAINER BRACKET.SLDPRT, LAST MODIFIED 09-26-11.
10. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9315 RECEPTACLE BRACKET.SLDPRT, LAST MODIFIED 10-19-11.
11. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9316 LINESHAFT BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
12. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9317 RH BRACKET.SLDPRT, LAST MODIFIED 06-22-10.

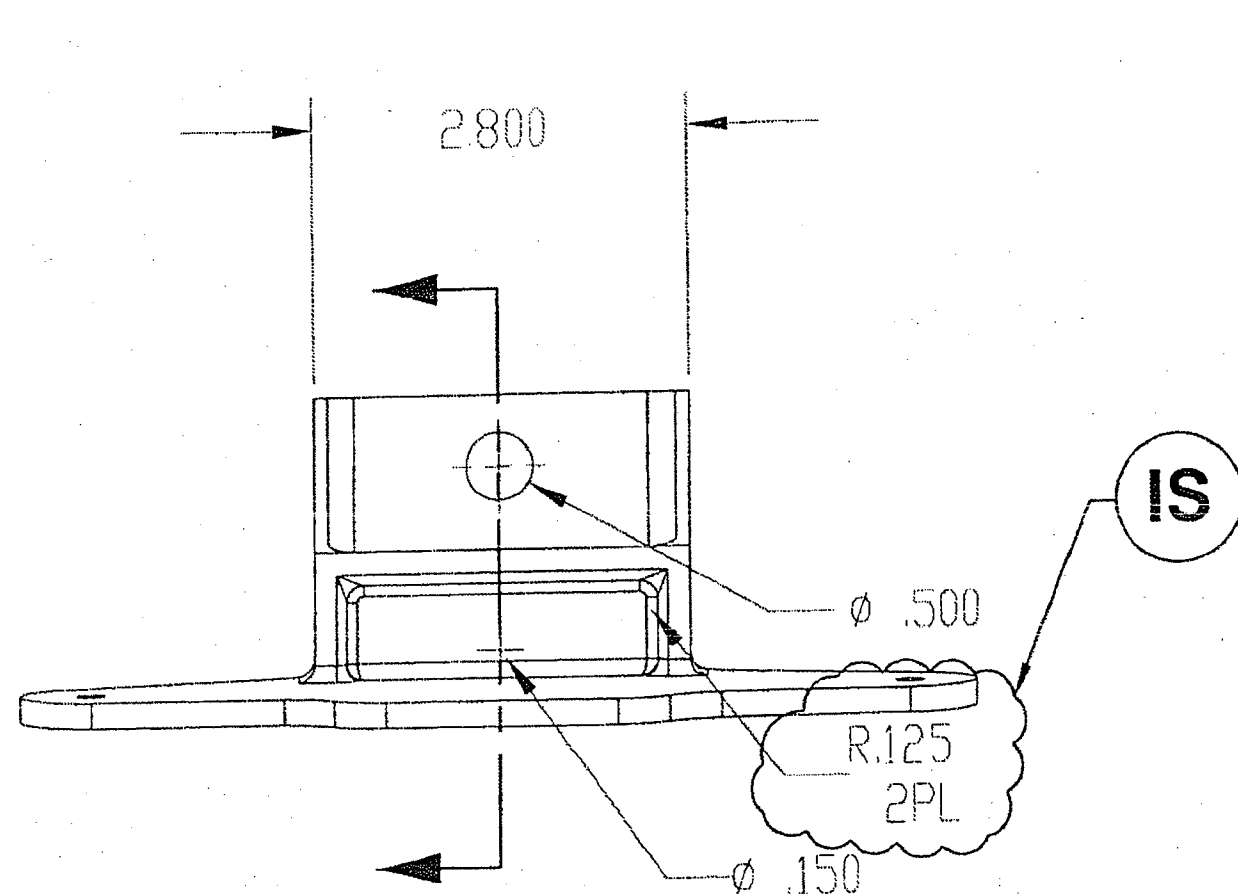
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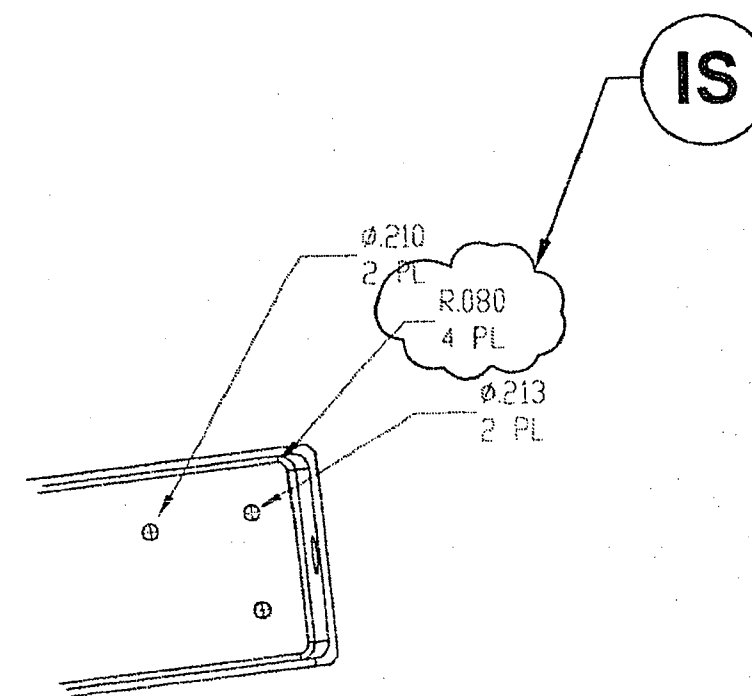
RECEIVED
11/16/11

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COPY

F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL	SPECIFICATION
DOCUMENTS EFFECTED:				<input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRU <input type="checkbox"/> ICA <input type="checkbox"/> BOM	CHANGE CATEGORY <input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	DER REVIEW REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO



SHEET 8, ZONE B6 IS:



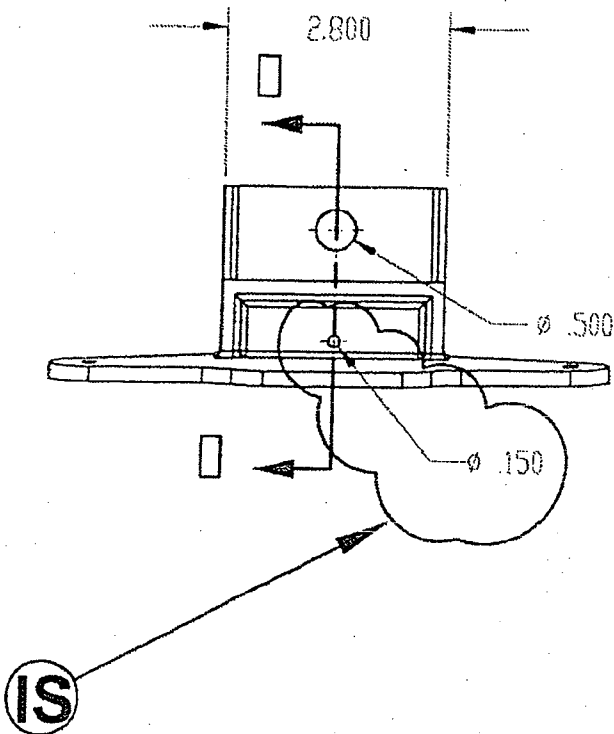
SECTION P-P

SHEET 8, ZONE B8 IS:

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APR 16 1994

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SHEET 8, ZONE B5:



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APR 16 1964

CONTROLLED
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F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL	SPECIFICATION
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APICAL INDUSTRIES ANY REPRODUCTION IN PART OR WHOLE WITHOUT
THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12.
2. FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR: BLACK;
PRETREAT PR-148 ADHESION PROMOTER, PRIME IAW MIL-P-23377J TYPE I, CLASS N.
3. DEBURR AND BREAK ALL SHARP EDGES.
4. IDENTIFY IAW MPP-120. LASER ENGRAVE CENTURY GOTHIC, 12 POINT P/N AND REVISION.
5. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9310 LH BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
6. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9311 SUPPORT BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
7. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9312 BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
8. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9313 BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
9. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9314 RETAINER BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
10. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9315 RECEPTACLE BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
11. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9316 CROSSBAR BRACKET.SLDPRT, LAST MODIFIED 06-22-10.
12. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9317 RH BRACKET.SLDPRT, LAST MODIFIED 06-22-10.

REVISION			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE RELEASE PART		
N/C	FINAL RELEASE	09-30-10	P. BRAVO

CONTROLLED
COPY

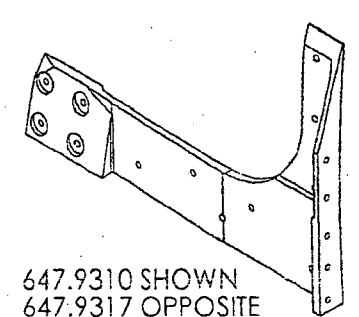
UNINCORPORATED ECN(S)

03209, 03706, 04249

	647.9317	RH BRACKET	△1	△2 △12
	647.9316	CROSSBAR BRACKET	△1	△2 △11
	647.9315	RECEPTACLE BRACKET	△1	△2 △10
	647.9314	RETAINER BRACKET	△1	△2 △9
	647.9313	BRACKET	△1	△2 △8
	647.9312	BRACKET	△1	△2 △7
	647.9311	SUPPORT BRACKET	△1	△2 △6
	647.9310	LH BRACKET	△1	△2 △5
FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
QTY		PARTS LIST		
NEXT ASSY (S)		APICAL INDUSTRIES		
647.8900		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA 92056-3512 (760)724-5300		
		BRACKETS		
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ±.02 ANGLES ±.5°		
		REV. 3	DATE: 07/11/26	REV. N/C
		DWG. NO. 647.9300		
		SCALE: NONE		SHEET 1 OF 9

RECEIVED
APR 10 19

REVIEWS			
REV.	DESCRIPTION	DATE	APPROVED



647.9310 SHOWN
647.9317 OPPOSITE

Ø.177 THRU (70)
5 PL

R58.424

— .870 (73)

— 59.225 (74)

REC'D
APR 16 11

Ca 01-10	APICAL IN 2608 TEMPLE HEIGHT OCEANSIDE, CA. 92
CHECKER	
P. BRAYC	
ROYAL	

UNWISE SPECIFIED PART DIMENSIONS ARE UNLESS ±0.1 UNLESS 2.000	SHEET B	CAGE CODE 07M26	DWG. NO. 6
SCALE NONE			

CHIEF P. BRVLC	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-55
PROVAL	

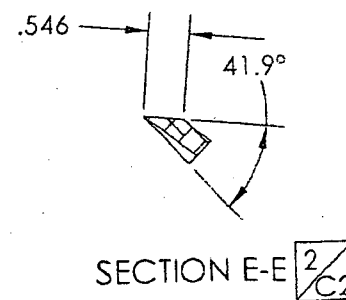
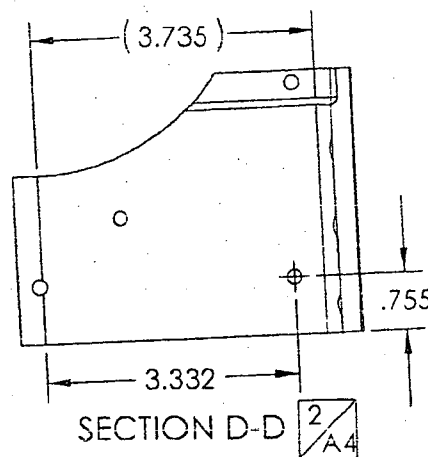
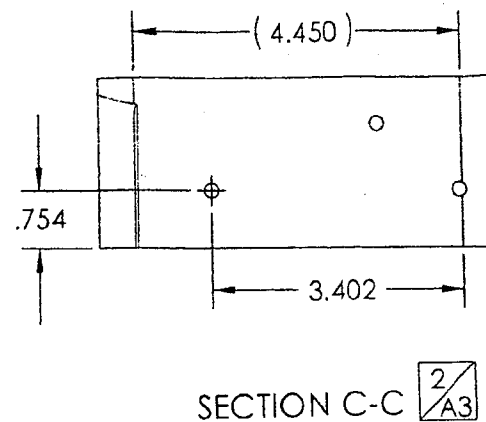
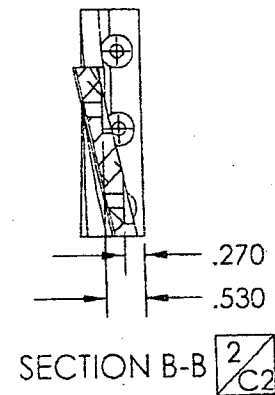
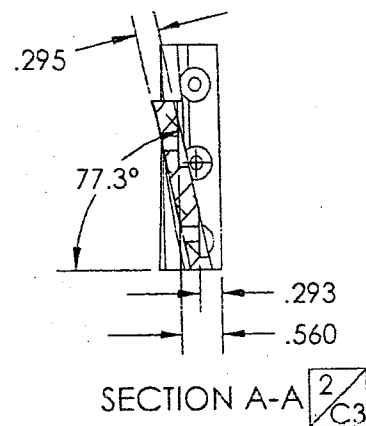
	BRACKETS.
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UNLESS SPECIFIED ALL DIMENSIONS ARE IN INCHES	SHEET B	CAGE CODE 021476	DWG. NO. 6479300	REVISION 1
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SCALE NONE	SHEET 2 OF 9
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REV.	DESCRIPTION	DATE	APPROVED



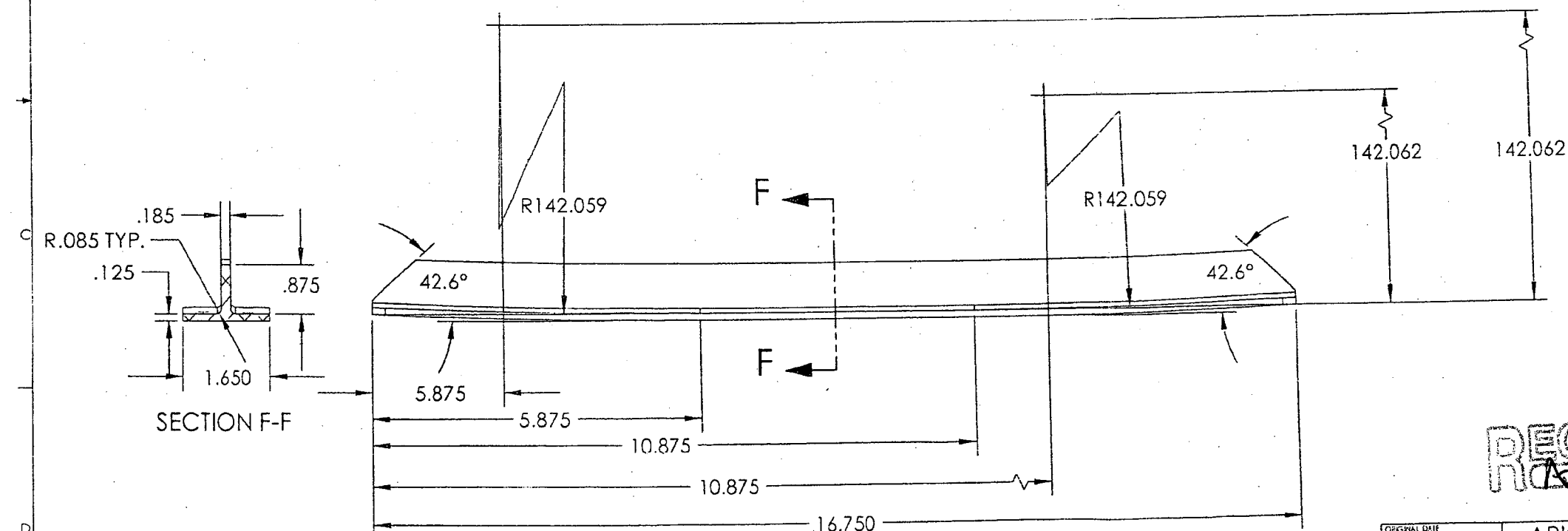
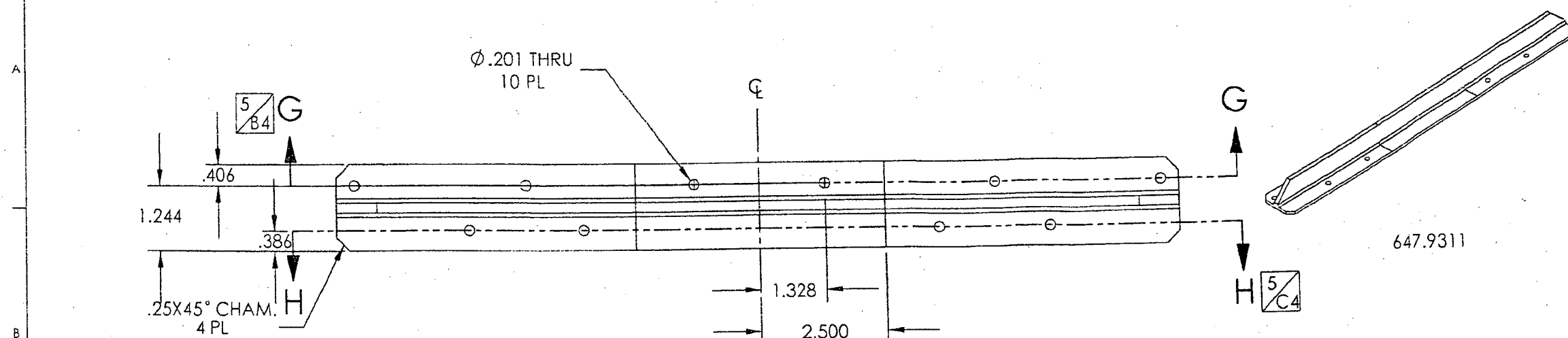
RECEIVED
10.16.15

CONTROLLED
COPY

ORIGINAL DATE 10-01-10		APICAL INDUSTRIES	
DRAWN BY P. ROSARIO		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY P. ROSARIO		BRACKETS	
DRAWING APPROVAL P. ROSARIO		SIZE B	REV N/C
CONTRACT NO.		CAGE CODE 07M26	ENG. NO. 647.9300
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ± .01 ANGLES ± .1°		SCALE NONE	SHEET 3 OF 9

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REV.	DESCRIPTION	DATE	APPROVED



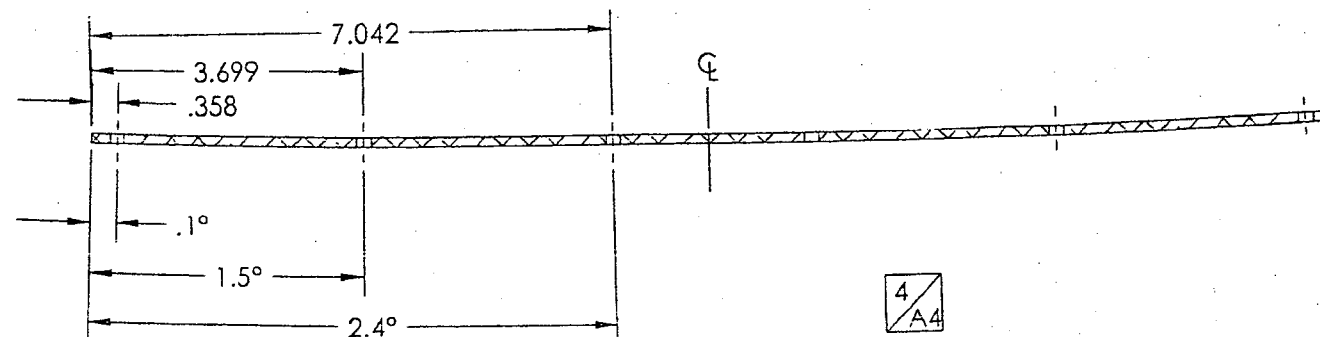
RECEIVED
APR 16 1988

ORIGINAL DATE 05-81-88	APICAL INDUSTRIES
DESIGNED BY P. ROSARIO	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300
DRAWING APPROVAL P. ROSARIO	BRACKETS
CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DIMENSIONS ARE 2 PLACE DECIMALS ±.01 ANGLES ±.5°	

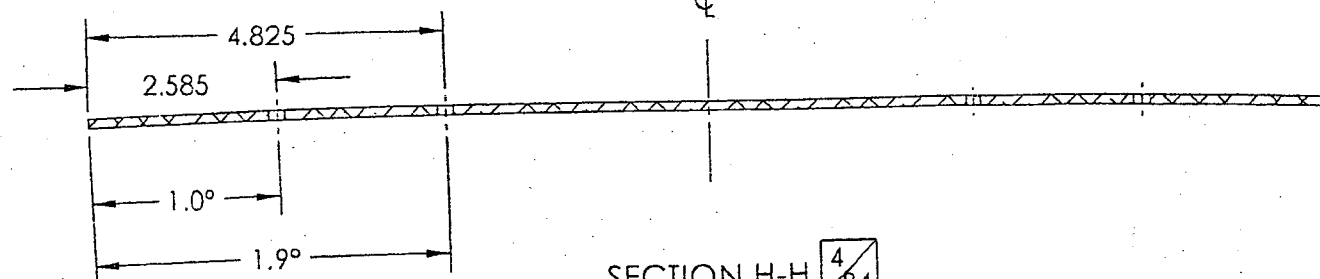
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COPY

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REV		DESCRIPTION	DATE	APPROVED



SECTION G-G



SECTION H-H



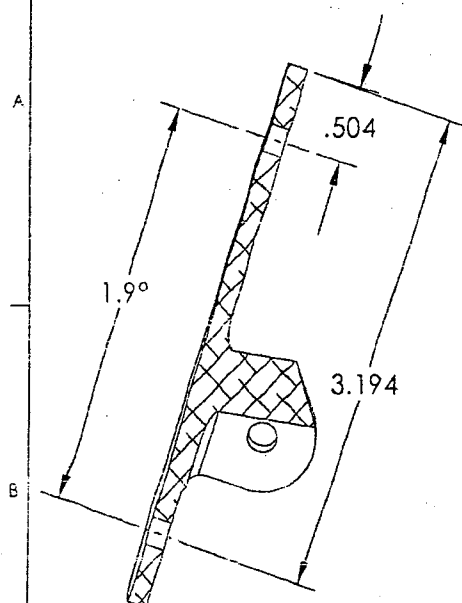
RECEIVED
OCT 19 1994

ORIGINAL DATE: 08-01-90 DRAWN BY: J. BEAUGU CHECKED BY: J. BEAUGU DRAWING APPROVAL: J. BEAUGU DATE: 08-01-90 CONTRACT NO.:		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ± .01 ANGLES ± .5°		SHEET: B CAGE CODE: 07M16 SCALE: NONE	REV: 647.9300 N/C SHEET: 5 OF 9

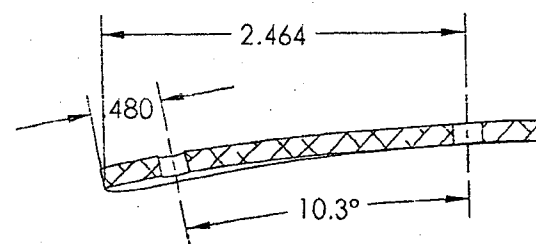
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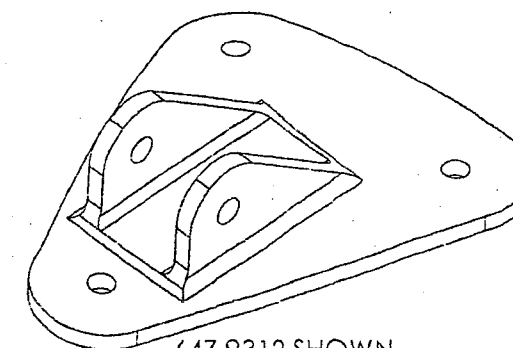
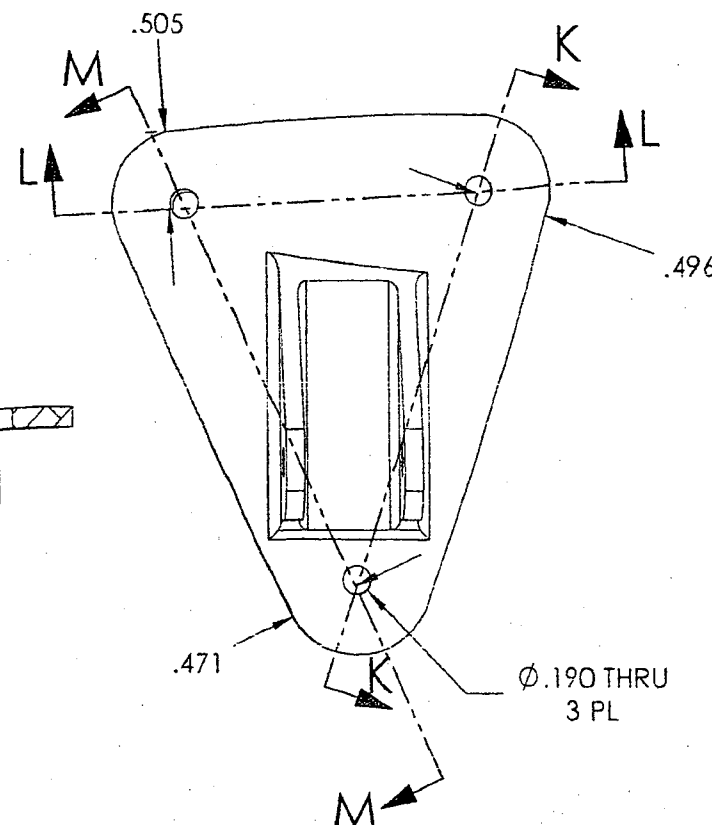
REV	DESCRIPTION	DATE	APPROVED



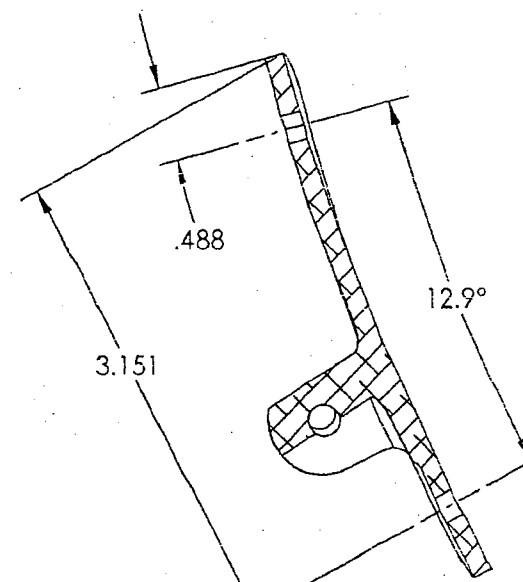
SECTION K-K



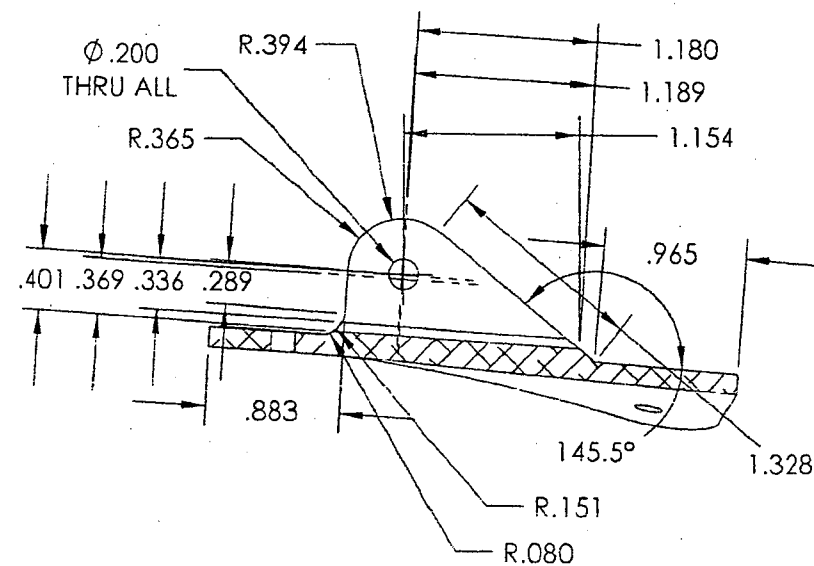
SECTION L-L



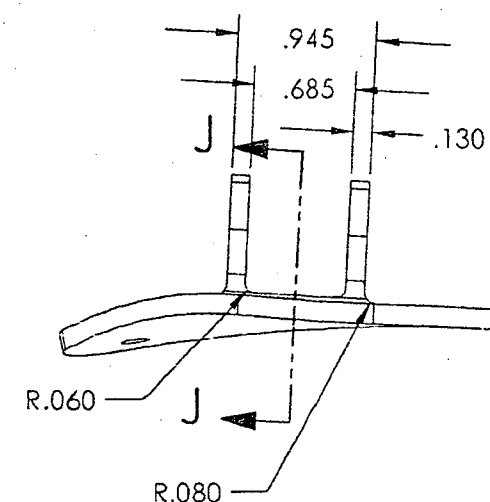
647.9312 SHOWN
647.9313 OPPOSITE



SECTION M-M



SECTION J-J

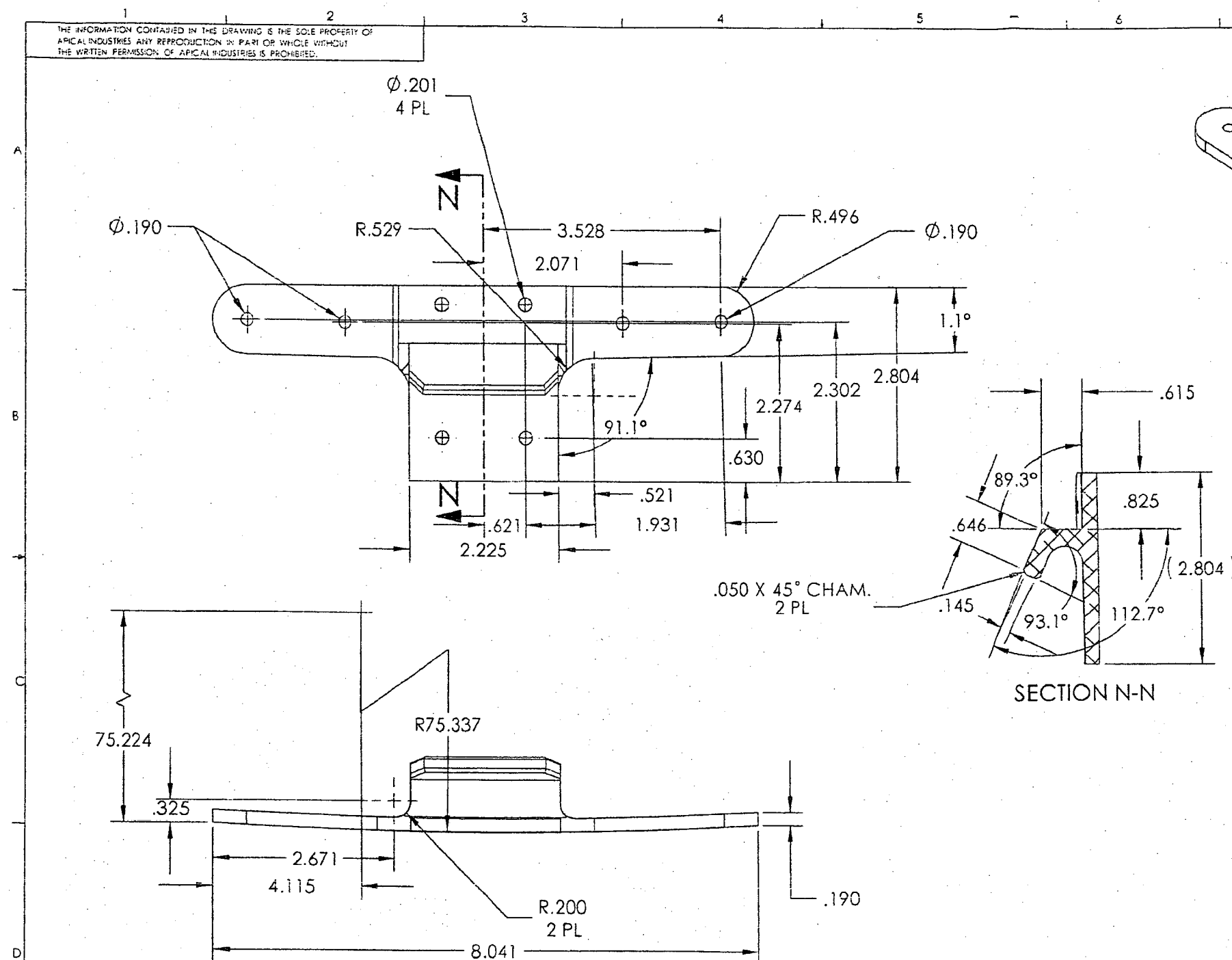
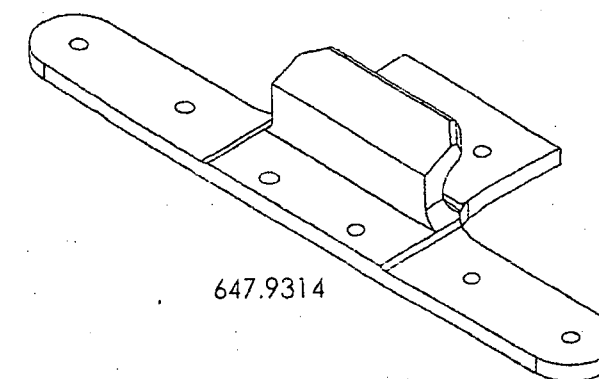


RECEIVED
APR 16 1974

ORIGINAL DATE 11-01-71	CD-110	PARTS LIST	
DRAWN BY P. ROSANO	CHECKED P. ROSANO	APICAL INDUSTRIES	
TRAINING APPROVAL P. ROSANO	DATE 03-29-75	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CONTRACT NO.		BRACKETS	
DIMENSIONS SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS 3 PLACE DECIMALS ANGLES ± .5°		REV 8 07/12/76	REV N/C
SCALE NONE		SHEET 6 OF 9	

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



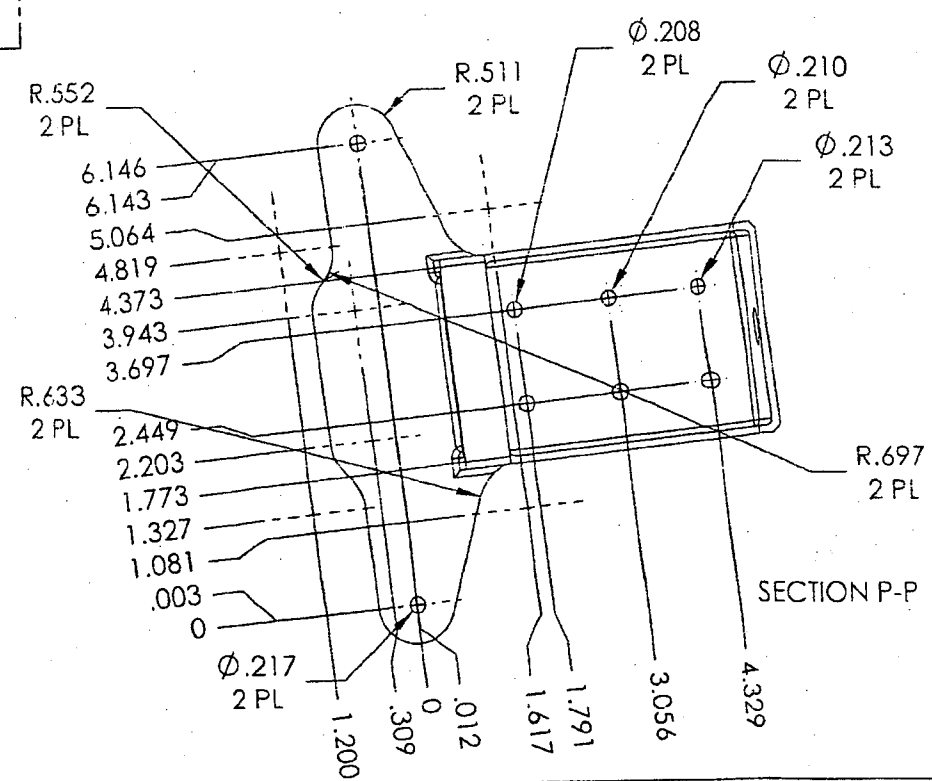
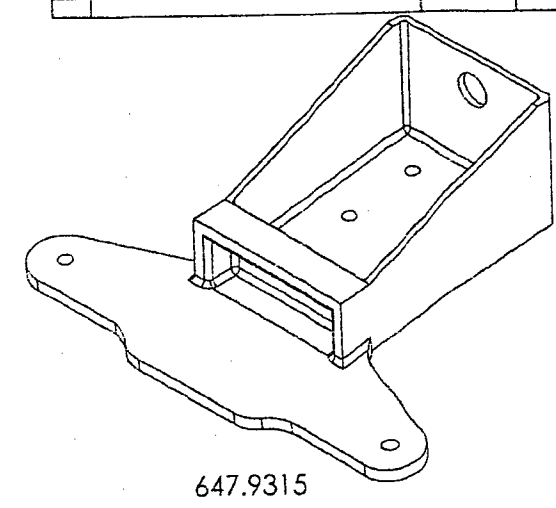
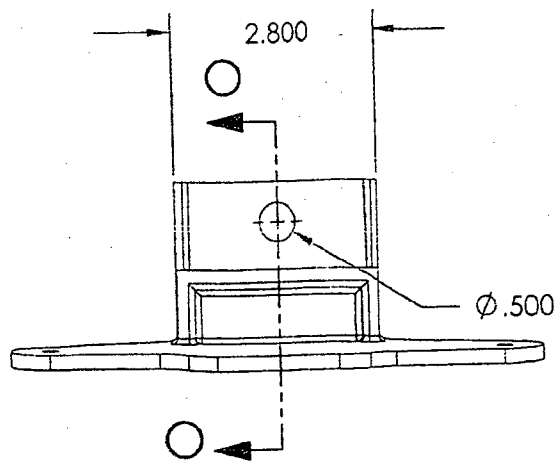
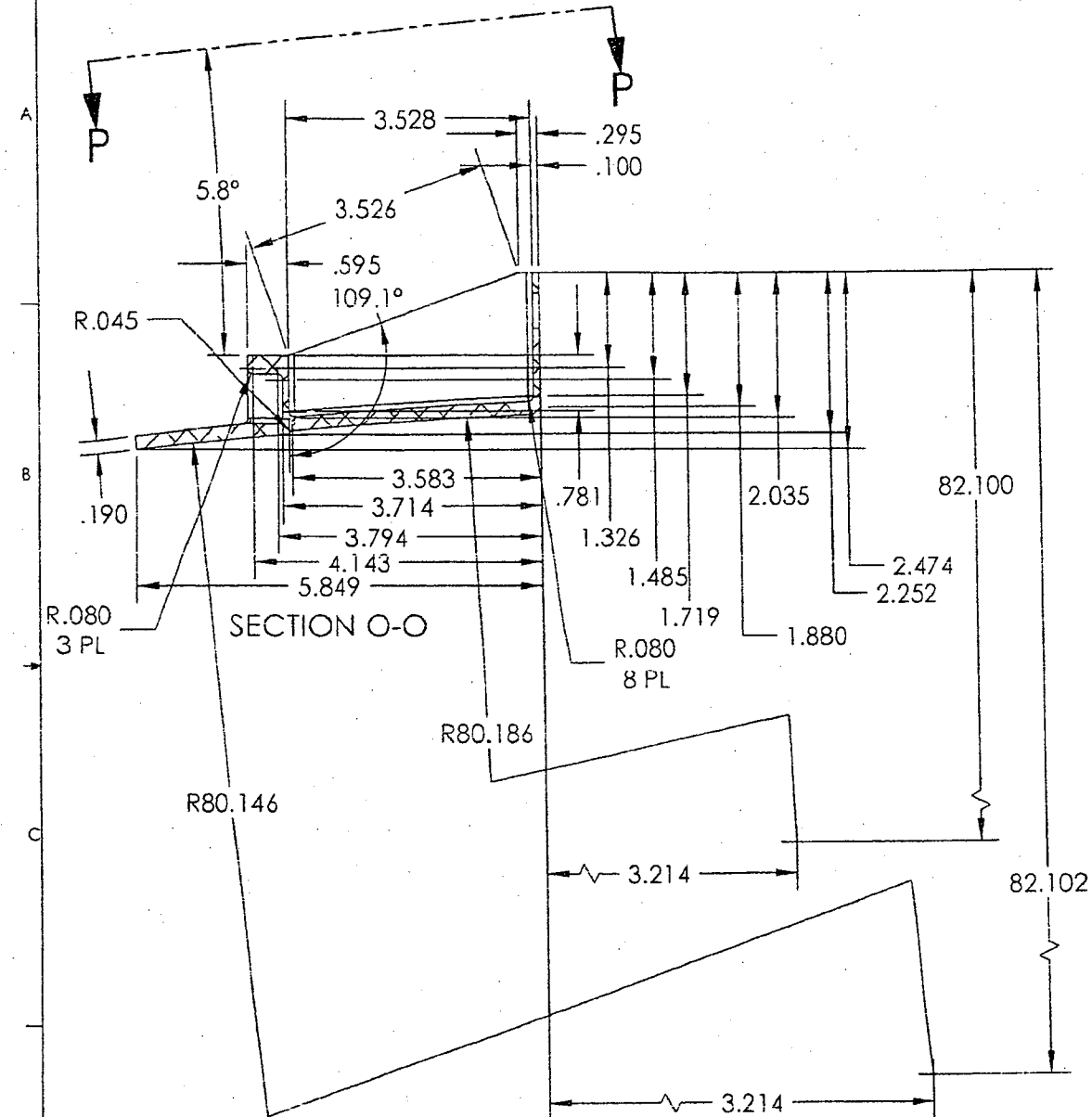
RECEIVED
APR 16/19

ORIGINAL DATE INCLASYS 02-01-10	APICAL INDUSTRIES		
DRAWN BY R. KOATING	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5333		
CHECKED BY P. MAYO	BRACKETS		
DRAWING APPROVAL P. MAYO	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 2 PLACE DECIMALS ± .03 3 PLACE DECIMALS ± .003		
CONTRACT NO.	SHEET NO.	SHEET	SHEET

CONTROL COPY

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REV	DESCRIPTION	DATE	APPROVED



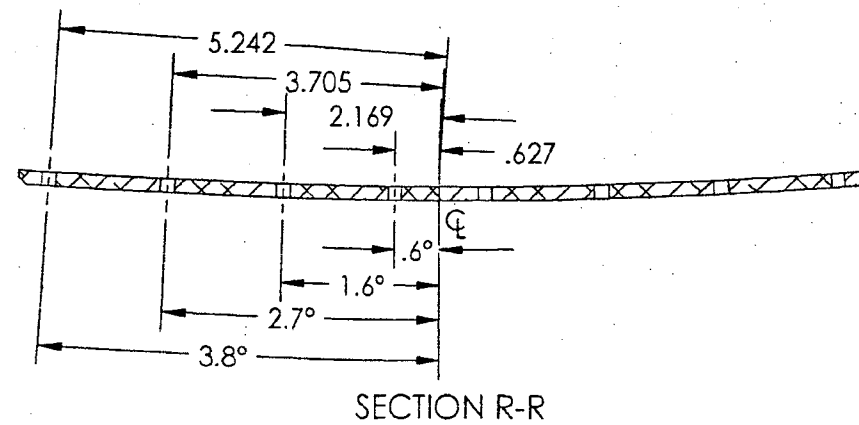
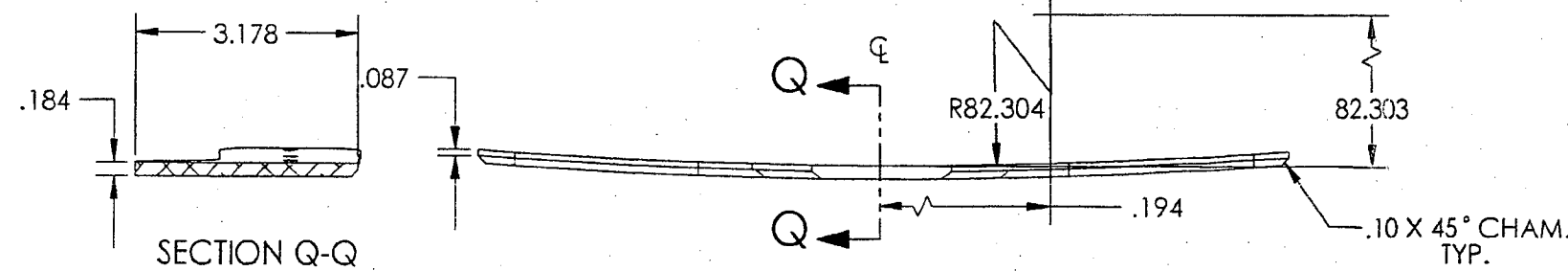
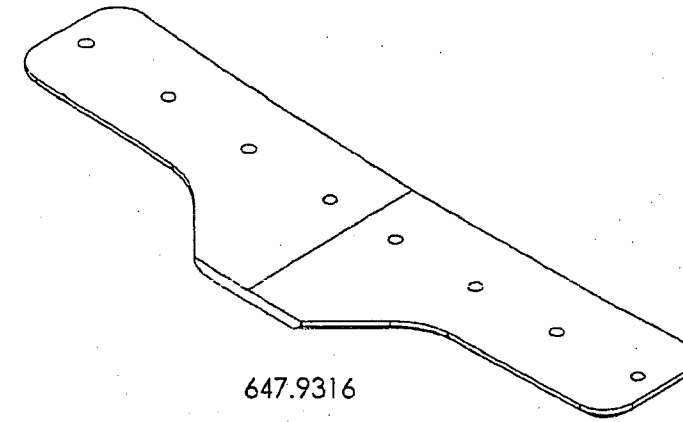
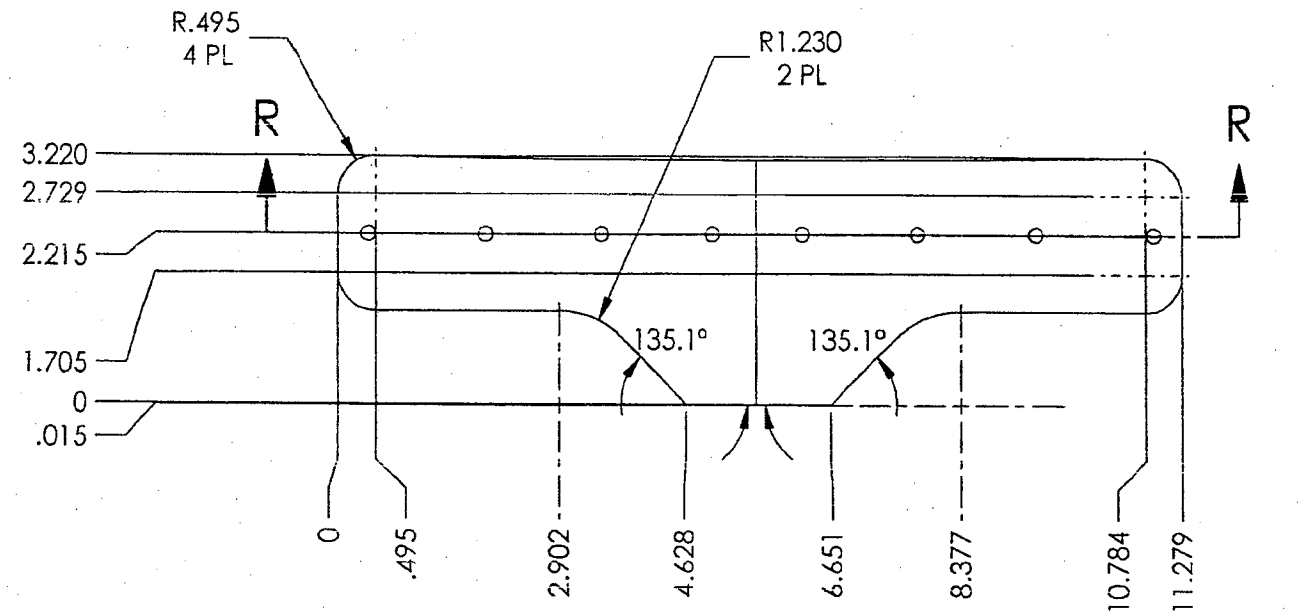
RECEIVED
DEC 16/14

ORIGINAL DATE: 05-01-10		APICAL INDUSTRIES	
DRAWN BY: P. ROSANO	CHECKED: F. SVAVO	2608 TEMPLE HEIGHTS DR.	
DRAWING APPROVAL: F. SVAVO		OCEANSIDE, CA. 92056-3512 (760) 724-5300	
CONTRACT NO.		BRACKETS	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS DECIMALS ANGLES		SHEET: 8 OF 9	REV: N/C

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



RECEIVED
APR 16 1994

ORIGINAL DATE (MO-DA-YR) 05-01-10		APICAL INDUSTRIES	
DRAWN BY E. ROSANO	CHECKER P. BRAVO	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO		BRACKETS	
CONTRACT NO.		REV. 1	N/C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±.010 ANGLES ±.2°		SCALE NONE	SHEET 9 OF 9

CONTROLLED
COPY

Work Order ID 112282

Friday, May 02, 2014 2:01:08 PM

112282

Page 1

Item ID: 647.9310

Revision ID:

Item Name: LH Bracket

Start Date: 1/30/2014 Start Qty: 4.00

Required Date: 1/30/2014 Req'd Qty: 4.00

Reference:

Accept

N900040100

Setup Start ***NS1***

Stop ***NS2***

Cust Item ID:

Customer:

Approvals: Process Plan: CL Date: 14/05/02 Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.9300									

110 0.00

110

Outsource5

Outsource process - Machining

Memo

ISSUE P/O: 24096
POSSIBLE SUPPLIER: ETM Industries Inc.

1- MANUFACTURE AS PER DWG

2- HARD ANODIZE BLACK AS PER DWG

3- PRIME AS PER DWG

Certificate of conformaty required

CL 14/05/06 10

120 Receive & Inspect for Damage & Mat'l Certs 0.00

120

Packaging

Packaging

Memo

0.00

14/7/25 10

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design <input type="checkbox"/>									
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Handling/Pre <input type="checkbox"/>									
Material <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Offset/Setup <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Transport <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence
		<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other

Work Order ID 112282

Friday, May 02, 2014 2:01:08 PM

112282

Page 2

Item ID: 647.9310

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: LH Bracket

Start Date: 1/30/2014 Start Qty: 4.00

4

Cust Item ID:

Required Date: 1/30/2014 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals:

Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run Start

NR1

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

QC6- Inspect dimensions to drawing

0.00

130

QC

Memo

0.00

Quality Control

(10)

DAS
38
9-89

DEC 16 2014

140

Identify as per dwg & Stock Location **CC183**

0.00

140

Packaging

Memo

0.00

Packaging

IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV

10

DAS
38
9-89

DEC 17 2014

150

QC21- Final Inspection - Work Order Release

0.00

150

QC

Memo

0.00

Quality Control

14/12/18

14-12-18

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design <input type="checkbox"/>									
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Handling/Pre <input type="checkbox"/>									
Material <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Offset/Setup <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Transport <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence
		<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other

Picklist Print

Page 1

Friday, May 02, 2014 2:01:13 PM

Work Order ID: 112282

112282

Parent Item: 647.9310

647 9310

Parent Item Name: LH Bracket

Start Date: 1/30/2014

Required Date: 1/30/2014

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP REV:A NEW ISSUE 12-11-19 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.9310P		Purchased	No				Each	0.0000		10			
647 9310P									**				
LH Bracket													
M7075T6B1.500X8.500		Purchased	No				f	20.0000		4.210526			
M7075T6B1 500X8 500									**				
M7075-T6 BAR 1.500' X 8.500"													

Location

Loc Qty

Loc Code

MAT049

20

m127822

20

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design <input type="checkbox"/>									
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Handling/Pre <input type="checkbox"/>									
Material <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Offset/Setup <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Transport <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence
		<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other

RELEASED			
REV.	DESCRIPTION	DATE	APPROVE
	LAST PRIOR RELEASE PRI		
141C	INITIAL RELEASE	08-30-12	F. PRAY

1. MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12.

3. DEBURR AND BREAK ALL SHARP EDGES.

4. IDENTIFY IAW MPP-120. LASER ENGRAVE CENTURY GOTHIC, 12 POINT P/N AND REVISION.

5. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9310 LH BRACKET.SLDPRJT, LAST MODIFIED 06-22-10.

6. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9311 SUPPORT BRACKET.SLDPRT, LAST MODIFIED 06-22-10.

7. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9312 BRACKET.SLDPRT, LAST MODIFIED 06-22-10.

8. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9313 BRACKET.SLDPRT, LAST MODIFIED 06-22-10.

9. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9314 RETAINER BRACKET.SLDPRT, LAST MODIFIED 06-22-10.

10. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9315 RECEPTACLE BRACKET.SLDPRT, LAST MODIFIED 06-22-10.

11. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9316 CROSSBAR BRACKET.SLDPRJT, LAST MODIFIED 06-22-10.

12. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 647.9317 RH BRACKET.SLDPRJT, LAST MODIFIED 06-22-10.

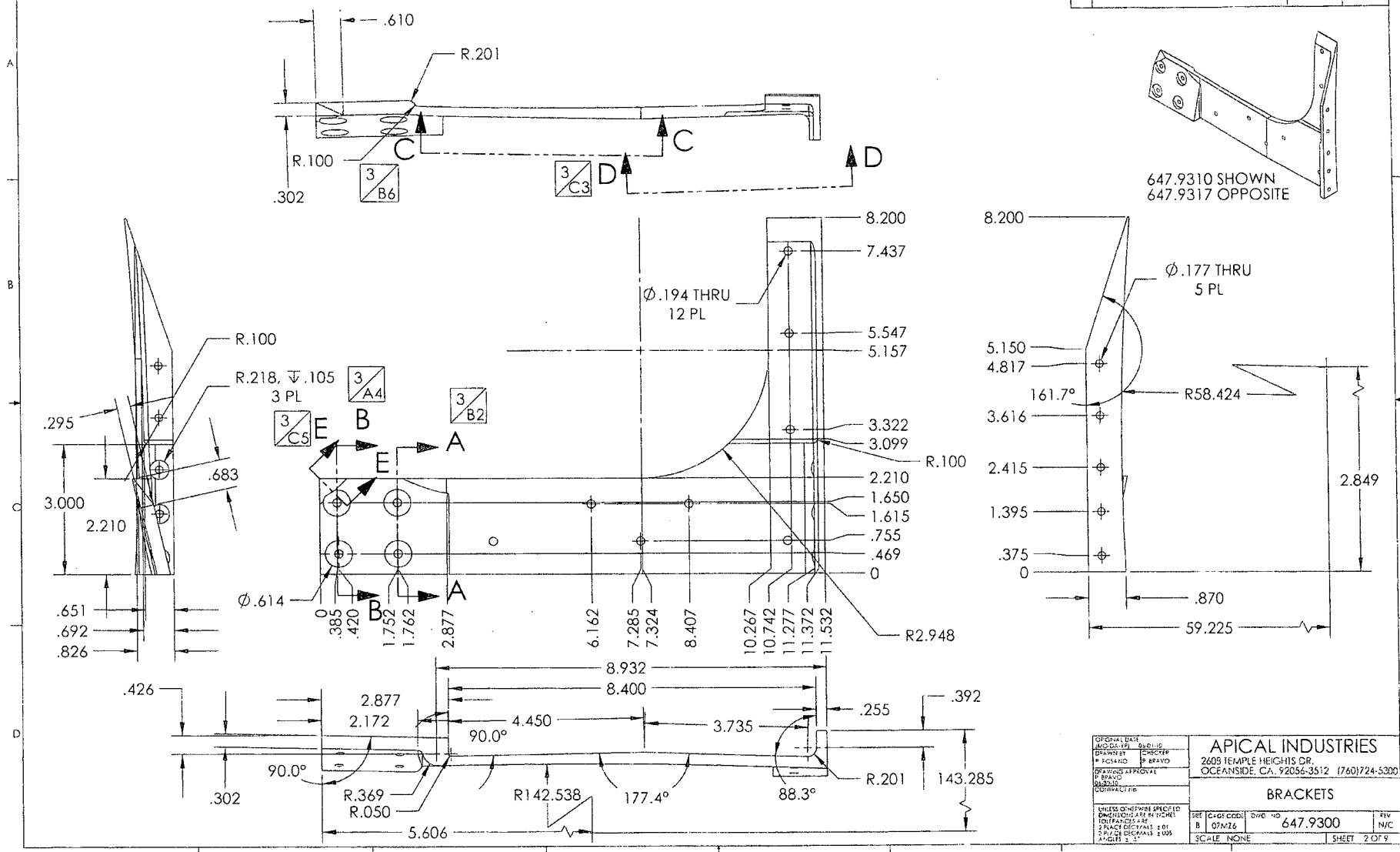
03209, 03706, 04249

C.L. 14105/02
W/O. 112282

		647.9317	RH BRACKET	△	△	△	△	△
		647.9316	CROSSBAR BRACKET	△	△	△	△	△
		647.9315	RECEPTACLE BRACKET	△	△	△	△	△
		647.9314	RETAINER BRACKET	△	△	△	△	△
		647.9313	BRACKET	△	△	△	△	△
		647.9312	BRACKET	△	△	△	△	△
		647.9311	SUPPORT BRACKET	△	△	△	△	△
		647.9310	LH BRACKET	△	△	△	△	△
	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.			
QTY			PARTS LIST					
NEXT ASSY IS)			APICAL INDUSTRIES					
647.8900			2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5531					
			BRACKETS					
		ORIGINAL DATE REVISED DATE P. REVISED P. REVISED BY APPROVAL BY APPROVAL DATE DATE CONTRACT NO.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS SURF FINISHES AS FOLLOWS: FRACTIONS .XX DECIMALS .XX SURFACE FINISHES .XX STOCK MATERIALS .XX WELDS .XX THREADS .XX SPACER BRACKETS .XX AS NOTED					
TUE	CAD/CORR	DWG NO	747.9300			REV	NO	
B	07/17/86							
SCALE	NONE		SHEET		1 OF 1			

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REV	DESCRIPTION	DATE	APPROVED



647.9310 SHOWN
647.9317 OPPOSITE

ORIGINAL DATE AND SIZE DRAWN BY CHECKED BY DESIGNED BY DATE CONTRACT NO.	APICAL INDUSTRIES 2605 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 17601724-5300 BRACKETS SEE C-6100001 DIVE NO. 647.9300 B 07/16 SCALE NONE	REV DATE BY CHECKED BY DATE BY
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS ARE TO BE 2 PLACES DECIMALS UNLESS OTHERWISE NOTED	SHEET 2 OF 9	REV DATE BY CHECKED BY DATE BY



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO24096**

Purchase Order Date 5/6/2014

PO Print Date 5/9/2014

Page Number 1 of 3

Order From :

VC-ETM001

Ship To : DART AEROSPACE LTD

E.T.M. INDUSTRIES INC.
310 HALL AVENUE
BOX 610

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

RENFREW, ONTARIO K7V 4E7
CANADA

REVISED

Contact Name

Vendor Phone

613-432-6136

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Ship To Contact

Ship To Phone

Ship Via:

FedEx PI collect

Ship Acct:

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
Line Comments		Promise Date					
Delivery Comments							
1	647.9310P	LH Bracket	6/27/2014		10.00	\$355.00	\$3,550.00
			Yes		Each		
MACHINE AS PER DWG 647.9310			6/27/2014				
B112282							
						Line Total:	\$3,550.00
2	647.9612P	RH Fwd Wiper Deflector	6/27/2014		10.00	\$645.00	\$6,450.00
			Yes		Each		
MACHINE AS PER DWG 647.9612			6/27/2014				
B112208							
						Line Total:	\$6,450.00
3	647.9316P	Crossbar Bracket	6/27/2014		10.00	\$215.00	\$2,150.00
			Yes		Each		
MACHINE AS PER DWG 647.9316			6/27/2014				
B115397							

Note:

5/9/2014

ETM Industries Inc

Page 1 of 8

AS9102 Revision A First Article Inspection

Form 1: Part Number Accountability

1. Part Number 647.9310P		2. Part Name L/H BRACKET		3. Serial Number N/A	
5. Part Revision Level REV N/C		6. Drawing Number 647.9300		7. Drawing Revision Level REV N/C	
8. Additional Changes N/A		9. Manufacturing Process Reference 90003		10. Organization Name ETM Industries Inc.	
11. Supplier Code N/A		12. P.O. Number PO24096 LINE 001			
13. Detail FAI <input checked="" type="checkbox"/>		14. Full FAI <input checked="" type="checkbox"/>		Baseline Part Number including Revision Level	
Assembly FAI <input type="checkbox"/>		Partial FAI <input type="checkbox"/> Reason for Partial FAI: Not Applicable		N/A	
a) If above part number is a detail part only, go to Field 19 b) If above part number is an assembly, go to the "Index" section below.					
INDEX of part numbers or sub assembly numbers required to make the assembly noted above.					
15. Part Number		16. Part Name		17. Part Serial Number	
18. FAI Report Number					
N/A		N/A		N/A	

1) Signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

2) Also indicate if the FAI is complete per Section 5.4: ☒ FAI Complete☐ FAI Not Complete

19. Signature JESSIE RIOPELLE

20. Date 07/25/14

21. Reviewed by

22. Date

23. Customer Approval

24. Date

AS9102 Revision A First Article Inspection

Form 2: Product Accountability – Raw Material, Specifications and Special Process(es),
Functional Testing

1. Part Number 647.9310P	2. Part Name L/H BRACKET	3. Serial Number N/A			4. FAI Report Number N/A
5. Material or Process – Name	6. Specification Number	7. Code	8. Special Process Supplier Code	9. Customer Approval Verification (Yes/No/N/A)	10. Certificate of Conformance Number
MATERIAL:	7075-T651 PER AMS-QQ-A250/12	N/A	N/A	N/A	CONSTELLUM LOT #482631
PROCESS: HARD ANODIZE	IAW MIL-A-8625 TYPE III, CLASS 2. COLOR BLACK. PRETREAT PR-148 ADHESION PROMOTOR,	N/A	N/A	N/A	VERDUN CERT: 309522-00
PROCESS-PRIME	PRIME IAW MIL-P-23377J TYPE I, CLASS N	N/A	N/A	N/A	RLD CERT: 77458
11. Functional Test Procedure Number	12. Acceptance report number, if applicable				
Not Applicable	Not Applicable				
13. Comments					
14. Prepared By MIKE YANTHA			15. Date 07/15/2014		

ETM Industries Inc

AS9102 Revision A First Article Inspection

Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

Page 3 of 8

1. Part Number 647.9310P				2. Part Name L/H BRACKET		3. Serial Number N/A		4. FAI Report N/A	
Characteristic Accountability				Inspection / Test Results					
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents		
1	SHEET 2/9	N/A	.826	.8334	CMM	N/A	N/A		
2	SHEET 2/9	N/A	.692	.6989	CMM	N/A	N/A		
3	SHEET 2/9	N/A	.651	.6589	CMM	N/A	N/A		
4	SHEET 2/9	N/A	2.210	2.2169	CMM	N/A	N/A		
5	SHEET 2/9	N/A	3.000	3.003	CALIPERS	N/A	N/A		
6	SHEET 2/9	N/A	.295	302	CALIPERS	N/A	N/A		
7	SHEET 2/9	N/A	R.100	.0937	RADIUS GAUGE	N/A	N/A		
8	SHEET 2/9	N/A	R.218	.2187	RADIUS GAUGE	N/A	N/A		
9	SHEET 2/9	N/A	∇.105	.110	CALIPERS	N/A	N/A		
10	SHEET 2/9	N/A	.683	.687	OPTICAL COMPARATOR	N/A	N/A		
11	SHEET 2/9	N/A	.302	.304	CALIPERS	N/A	N/A		
12	SHEET 2/9	N/A	R.100	.0937	RADIUS GAUGE	N/A	N/A		
13	SHEET 2/9	N/A	.610	.612	CALIPERS	N/A	N/A		

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By **MIKE YANTHA**13. Date **7/15/2014**

1. Part Number 647.9310P				2. Part Name L/H BRACKET		3. Serial Number N/A		4. FAI Report N/A	
Characteristic Accountability				Inspection / Test Results					
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents		
14	SHEET 2/9	N/A	R.201	.2031	RADIUS GAUGE	N/A	N/A		
15	SHEET 2/9	N/A	∅.194 THRU	.1910	CMM	N/A	N/A		
16	SHEET 2/9	N/A	8.200	8.2026	CMM	N/A	N/A		
17	SHEET 2/9	N/A	7.437	7.4430	CMM	N/A	N/A		
18	SHEET 2/9	N/A	5.547	5.5521	CMM	N/A	N/A		
19	SHEET 2/9	N/A	5.157	5.1614	CMM	N/A	N/A		
20	SHEET 2/9	N/A	3.322	3.3268	CMM	N/A	N/A		
21	SHEET 2/9	N/A	3.099	3.100	HEIGHT GAUGE AND SCRIBER	N/A	N/A		
22	SHEET 2/9	N/A	R.100	.0937	RADIUS GAUGE	N/A	N/A		
23	SHEET 2/9	N/A	2.210	2.2085	CMM	N/A	N/A		
24	SHEET 2/9	N/A	1.650	1.6543	CMM	N/A	N/A		
25	SHEET 2/9	N/A	1.615	1.6206	CMM	N/A	N/A		
26	SHEET 2/9	N/A	.755	.7593	CMM	N/A	N/A		

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By **MIKE YANTHA**13. Date **7/15/2014**

AS9102 Revision A First Article Inspection
Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

Page 5 of 8

1. Part Number 647.9310P				2. Part Name L/H BRACKET		3. Serial Number N/A		4. FAI Report N/A	
Characteristic Accountability				Inspection / Test Results					
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents		
27	SHEET 2/9	N/A	.469	.4723	CMM	N/A	N/A		
28	SHEET 2/9	N/A	11.532	11.5302	CMM	N/A	N/A		
29	SHEET 2/9	N/A	11.372	11.370	HEIGHT GAUGE AND SCRIBER	N/A	N/A		
30	SHEET 2/9	N/A	11.277	11.280	HEIGHT GAUGE AND SCRIBER	N/A	N/A		
31	SHEET 2/9	N/A	10.742	10.7388	CMM	N/A	N/A		
32	SHEET 2/9	N/A	10.267	10.2624	CMM	N/A	N/A		
33	SHEET 2/9	N/A	8.407	8.4061	CMM	N/A	N/A		
34	SHEET 2/9	N/A	7.324	7.3157	CMM	N/A	N/A		
35	SHEET 2/9	N/A	7.285	7.2822	CMM	N/A	N/A		
36	SHEET 2/9	N/A	6.162	6.1599	CMM	N/A	N/A		
37	SHEET 2/9	N/A	2.877	2.874	CALIPERS	N/A	N/A		
38	SHEET 2/9	N/A	1.762	1.7615	CMM	N/A	N/A		
39	SHEET 2/9	N/A	1.752	1.7499	CMM	N/A	N/A		

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12. Prepared By **MIKE YANTHA**13. Date **7/15/2014**

AS9102 Revision A First Article Inspection
Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

Page 6 of 8

1. Part Number 647.9310P				2. Part Name L/H BRACKET		3. Serial Number N/A		4. FAI Report N/A	
Characteristic Accountability				Inspection / Test Results					
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents		
40	SHEET 2/9	N/A	.420	.4203	CMM	N/A	N/A		
41	SHEET 2/9	N/A	.385	.3843	CMM	N/A	N/A		
42	SHEET 2/9	N/A	Ø.614	.614	PIN GAUGES	N/A	N/A		
43	SHEET 2/9	N/A	.426	.425	OPTICAL COMPARATOR	N/A	N/A		
44	SHEET 2/9	N/A	2.172	2.178	CALIPERS	N/A	N/A		
45	SHEET 2/9	N/A	2.877	2.874	CALIPERS	N/A	N/A		
46	SHEET 2/9	N/A	90.0°	90.0°	ANGLE GAUGE	N/A	N/A		
47	SHEET 2/9	N/A	4.450	4.455	OPTICAL COMPARATOR	N/A	N/A		
48	SHEET 2/9	N/A	8.400	8.400	CALIPERS	N/A	N/A		
49	SHEET 2/9	N/A	8.932	8.935	HEIGHT GAUGE AND SCRIBER	N/A	N/A		
50	SHEET 2/9	N/A	3.735	3.732	CALIPERS	N/A	N/A		
51	SHEET 2/9	N/A	.255	.252	CALIPERS	N/A	N/A		
52	SHEET 2/9	N/A	.392	.399	HEIGHT GAUGE AND INDICATOR	N/A	N/A		

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By **MIKE YANTHA**13. Date **7/15/2014**

AS9102 Revision A First Article Inspection
Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

Page 7 of 8

1. Part Number 647.9310P				2. Part Name L/H BRACKET		3. Serial Number N/A		4. FAI Report N/A	
Characteristic Accountability				Inspection / Test Results					
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents		
53	SHEET 2/9	N/A	143.285	143.285	CMM	N/A	N/A		
54	SHEET 2/9	N/A	R.201	.2031	CMM	N/A	N/A		
55	SHEET 2/9	N/A	88.3°	88.5°	PROTRACTOR	N/A	N/A		
56	SHEET 2/9	N/A	177.4°	177°45'	OPTICAL COMPARATOR	N/A	N/A		
57	SHEET 2/9	N/A	R142.538	142.538	CMM	N/A	N/A		
58	SHEET 2/9	N/A	5.606	5.605	CMM	N/A	N/A		
59	SHEET 2/9	N/A	R.050	R.0468	CMM	N/A	N/A		
60	SHEET 2/9	N/A	R.369	.375	RADIUS GAUGE	N/A	N/A		
61	SHEET 2/9	N/A	90.0°	90.0°	ANGLE GAUGE	N/A	N/A		
62	SHEET 2/9	N/A	.302	.302	CALIPERS	N/A	N/A		
63	SHEET 2/9	N/A	.375	.3768	CMM	N/A	N/A		
64	SHEET 2/9	N/A	1.395	1.3968	CMM	N/A	N/A		
65	SHEET 2/9	N/A	2.415	2.4170	CMM	N/A	N/A		

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By **MIKE YANTHA**13. Date **7/15/2014**

ETM Industries Inc

AS9102 Revision A First Article Inspection
Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

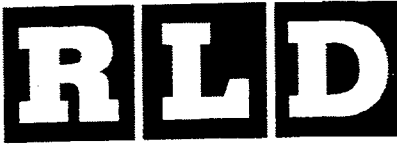
Page 8 of 8

1. Part Number 647.9310P				2. Part Name L/H BRACKET		3. Serial Number N/A		4. FAI Report N/A	
Characteristic Accountability				Inspection / Test Results					
5. Char. No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designated Tooling	11. Non Conformance Number	14. Reference Documents		
66	SHEET 2/9	N/A	3.616	3.6180	CMM	N/A	N/A		
67	SHEET 2/9	N/A	161.7°	161.68°	CMM	N/A	N/A		
68	SHEET 2/9	N/A	4.817	4.8192	CMM	N/A	N/A		
69	SHEET 2/9	N/A	5.150	5.1527	CMM	N/A	N/A		
70	SHEET 2/9	N/A	∅.177 THRU	.177	CMM	N/A	N/A		
71	SHEET 2/9	N/A	R58.424	58.425	CMM	N/A	N/A		
72	SHEET 2/9	N/A	2.849	2.850	CMM	N/A	N/A		
73	SHEET 2/9	N/A	.870	.878	CALIPERS	N/A	N/A		
74	SHEET 2/9	N/A	59.225	59.228	CMM	N/A	N/A		
75	SHEET 2/9	N/A	R2.948	2.9515	CMM	N/A	N/A		

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12. Prepared By **MIKE YANTHA**

13. Date **7/15/2014**



- POWDER COATING
- ELECTROSTATIC ON-SITE
- BAKED ENAMEL FINISHES

Industries Ltd.

4210 ALBION ROAD
OTTAWA, ONTARIO K1T 3W2

TELEPHONE: (613) 822-4000
FAX: (613) 822-3303

EMAIL: rld@magma.ca
WEB: www.rldindustries.com

LETTER OF COMPLIANCE

E.T.M. Industries Inc.
P.O. Box 610, 266 Hall Avenue East
Renfrew, Ontario
K7V 4E7

Purchase Order #: 99401

RLD W/O #: 77458

DATE: July 25, 2014

PART:

Quantity	Part Number	Description
10	647.9612P	R/H FWD WIPER DEFLECTOR
10	647.9310P	L/H BRACKET
10	647.9316P	CROSSBAR BRACKET

SPECIFICATION:

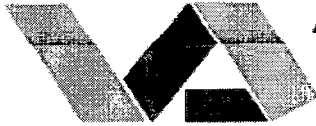
Parts were painted July 14, 2014 as follows:

Primer: 02GN084, DEFT, Aqua Green, Batch # 99460, MILS .9 DFT and Expiry Date Oct./15

Prime per IAW MIL-P-23377J, Type 1, Class N.

Parts also passed a non-destructive tape test.

Roger Lortie
Purchaser/Estimator/Quality Assurance
RLD INDUSTRIES LTD.



Anodisation Verdun Inc.
Verdun Anodizing Inc.

3971, ave Verdun, Verdun (Quebec) H4G 1L1

AS 9100:2004

ISO 9001:2000

Certified

info@verdunanodizing.com

Tel: (514) 761-4531

Fax: (514) 769-4731

CERTIFICATE OF SUB-CONTRACTOR

C
U
S
T
O
M
E
R
E.T.M. INDUSTRIES INC.
310 HALL AVENUE
BOX 610
RENFREW
Ontario K7V 4E7

ETM

S
H
I
P
T
O
E.T.M. INDUSTRIES INC.
310 HALL AVENUE
BOX 610
RENFREW
Ontario K7V 4E7

ETM

Customer Order No.	Order Date	Process Date	Certificate No.
99334	18/07/14	23/07/14	309522-00

PROCESS: MIL A-8625F1 TY III C1 2 NOIR No Seal

Item No.	Quantity	Description	Serial #
001	10.0	647.9310P LINE:001 L/H BRACKET JOB:90003 DUE:24-JUL-14	MAT:7075-T651

We hereby certify that the parts described above and furnished by E.T.M. INDUSTRIES INC. have been treated in accordance with the relevant specifications, PO requirements and that no substitution of materials has been made.

VA
12

Inspector:

Verdun Anodizing Inc.

B I L L O F L A D I N G

No: PEC 881915

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 11Jun14 at 12:33 From PFW
Probill T166771 19425482
Via MANITOULIN TRA
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20132)
E T M INDUSTRIES INC

Ship To: (1)
E T M INDUSTRIES INC

B I L L O F L A D I N G

MUST INCLUDE THE FOLLOWING INFORMATION:

COMPANY NAME

SALES ORDER #

P.O.#

ITEM#

AND DESCRIPTION OF PRODUCT & SPECIFICATIONS
(ie. ASTM SPECS)

** DO NOT SHIP MATERIAL WITHOUT MTR'S & CofC'S * >
> CLOSE AT NOON ON FRIDAYS <

TOTAL 2 SKIDS, 1 CTN G.W. 424 LBS

ITEM (1) SKID

ITEM (2) SKID

ITEM (3) CTN

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

Page: 2 Last

TOUS LES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE
RAPPORTEES IMMEDIATEMENT
ANY LOSS OR STORAGE MUST BE REPORTED IMMEDIATELY
RETOURNEZ VOS COPIES AVEC VOTRE NUMERO D'APPROBATION SEULEMENT
MERCHANDISES CANNOT BE RETURNED WITHOUT OUR APPROVAL NUMBER



CERTIFICATE OF COMPLIANCE

Date: JUNE 11, 2014

Customers: E T M INDUSTRIES INC

To Whom It May Concern:

RE: Your PO 99050

OUR B/L-881915

Work order no. 690223

DESCRIPTION	SIZE	HEAT NO	SPECIFICATIONS
ALUMINUM PLATE 7075-T651	1.25" THICK X 10" X 13"	482631	ASTM B209
ALUMINUM PLATE 7075-T651	4.0" THICK X 5" X 9.5"	161721	ASTM B209
ALUMINUM PLATE 7075T7351	.75" THICK X 1.5" X 3.5"	681426A3	ASTM B209

We certify that mercury or any of its compounds are not used in the processing and distribution of our products. The products we distribute are not hazardous in their received state. For MSDS sheets go to www.copperandbrass.com

We hereby certify that the material supplied against the above order complies with the above Specifications. AS ABOVE

Sincerely,

A handwritten signature in cursive script, appearing to read 'Yolande'.

YOLANDE

THYSSENKRUPP MATERIALS NA



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN

46544

COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI

48086

COPPER&BR 157101 4075 INCLUSION SERIAL#: 20131212157101 PAGE 1 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM 5400200915				Constellium ORDER NO. 110-513475		CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA <i>Rodney J. Felty</i> Rodney J. Felty - Laboratory Manager
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 1.28000	WIDTH 60.500	LENGTH 144.500	
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL						
CUSTOMER SPECIFICATION AMS-QQ-A-250/12						
PART NUMBER ALFLR00995		B/L NUMBER 157100		DATE SHIPPED 12/13/13		
WEIGHT SHIPPED 3,525		NO. OF PIECES 3		GOVT. CONTRACT NO.		

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
482631	LT	2	***** T651 81.1 81.5 ELEMENT D13120376		71.6	72.3	***** 13.5 13.5												
All material contained in lot 482631 was cast and manufactured in the USA.																			

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS																			

ASTM B209-10, AMS 4045K																			
<div>ThyssenKrupp Materials N.A Inc. Copper and Brass Sales Division sold to: Customer: P.O #: 258922 CBS Delivery #: 2403198073 QTY: 10 PCS By: <i>SL</i> Date: 6/6/14</div>																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
	SEE ACTUAL CHEMICAL COMPOSITION																		
ALUMINUM REMAINDER																			



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN

46544

COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI

48086

COPPER&BR 157101 4075 INCLUSION SERIAL#: 20131212157101 PAGE 3 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM 5400200915				Constellium ORDER NO. 110-513475		CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA <i>Rodney J. Felty</i> Rodney J. Felty - Laboratory Manager
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 1.28000	WIDTH 60.500	LENGTH 144.500	
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL						
CUSTOMER SPECIFICATION AMS-QQ-A-250/12						
PART NUMBER ALFLR00995		B/L NUMBER 157100		DATE SHIPPED 12/13/13		
WEIGHT SHIPPED 3,525		NO. OF PIECES 3		GOVT. CONTRACT NO.		

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.																			
CHEMISTRY BY OES: ARKSPARK																			
CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT.																			
WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399.																			
WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557.																			
Mark Paperwork: ALFLR00995																			
DUNS Number: 090570149; CAGE Code: 1YWL9																			
Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.																			
"END OF CERTIFICATION"																			
CHEM COM P	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
	SEE ACTUAL CHEMICAL COMPOSITION																		
	ALUMINUM REMAINDER																		

COPPER AND BRASS SALES**MATERIAL TYPE****ALUMINIUM ALLOYS****PRODUCT DESIGNATION****2014 2024 2224 2324 7050 7075 7150 7175 7475 ALUMEC 89 ALUMEC 99 QC-7****"WARNING"**

SMALL CHIPS,FINE TURNINGS AND DUST MAY IGNITE READILY.EXPLOSION POTENTIAL MAY BE PRESENT WHEN:DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH CERTAIN METAL OXIDES; OR,CHIPS,FINES,DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE.KEEP AWAY FROM IGNITION SOURCE.USE EXPLOSION-PROOF VENTILATION.KEEP MATERIAL DRY.

THIS PRODUCT CONTAINS BERYLLIUM AND COPPER.INHALING BERYLLIUM DUST OR FUMES MAY CAUSE CHRONIC BERYLLIUM DISEASE (CBD),A SERIOUS CHRONIC LUNG DISEASE IN SOME INDIVIDUALS.BERYLLIUM IS A CANCER HAZARD;OVER TIME CBD AND CANCER CAN BE FATAL,TARGET ORGAN IS PRIMARILY THE LUNG.INHALING LARGE AMOUNTS OF COPPER,MAGNESIUM OXIDE,MANGANESE OXIDE,AND ZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS.CHRONIC OVEREXPOSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN;AND SKIN,TEETH,AND HAIR DISCOLORATION.CHRONIC OVEREXPOSURE TO MANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE,SCARRING OF THE LUNGS AND REPRODUCTIVE HARM IN MALES.TARGET ORGAN IS PRIMARILY THE LUNG,BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER.CHRONIC OVEREXPOSURE TO IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS.CHRONIC OVEREXPOSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS.OVEREXPOSURE TO AMORPHOUS SILICA CAN CAUSE DRYING OF THE MUCOUS MEMBRANES OF THE EYES,NOSE,AND THROAT.

THIS PRODUCT ALSO CONTAINS NICKEL AND CHROMIUM COMPOUNDS.INHALATION OF NICKEL DUST OR FUME MAY RESULT IN INFLAMMATION OF THE RESPIRATORY TRACT AND CAUSE NASAL AND/OR LUNG CANCER.NICKEL HAS BEEN IDENTIFIED AS A POTENTIAL HUMAN CARCINOGEN.EXPOSURE TO CHROMIUM DUST OR FUMES MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND LIVER DAMAGE.UNDER HIGH TEMPERATURES,HEXAVALENT CHROMIUM MAY BE PRODUCED,IF IN THE INSOLUBLE FORM,IT IS A CONFIRMED HUMAN CARCINOGEN.(CALIFORNIA PROPOSITION 65).

IF COATED WITH OIL,MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT.WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.

READ THE ALUMINIUM/ALUMINIUM ALLOYS MATERIAL SAFETY DATA SHEET (MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

* If processing or recycling produces particulate,use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding,grinding,abrasive sawing,sanding and polishing.Any activity which abrades the surface of this material can generate airborne particulate.Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.

* The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.

* Aluminum, in solid form and as contained in finished products presents no special health risk.

* Sold for manufacturing purposes only.This product can be recycled; contact your sales representative.

For additional information, call or write to Copper and Brass Sales,22355 West Eleven Mile Road, Southfield, MI 48033,telephone 248-233-5600, or visit our web site @ www.copperandbrass.com.

Jean-Luc Menard

From: Pablo Bravo
Sent: December-11-14 11:04 AM
To: Jean-Luc Menard
Subject: RE: 647.9310 DEVIATION

JL,

Let's go with the parts AS-IS. If we have an issue during installation, we'll issue an NTO to ream out the holes as necessary.

Pablo

From: Jean-Luc Menard
Sent: Thursday, December 11, 2014 5:18 AM
To: Pablo Bravo
Subject: FW: 647.9310 DEVIATION

Hi Pablo,
Any news on this?
JL

From: Jean-Luc Menard
Sent: December-10-14 10:06 AM
To: Pablo Bravo
Subject: RE: 647.9310 DEVIATION

I should have mentioned that the parts are primed, we could ream them but it would bring them down to the anodize. Let me know what you want us to do,
JL

From: Pablo Bravo
Sent: December-10-14 10:00 AM
To: Jean-Luc Menard
Subject: RE: 647.9310 DEVIATION

JL,

My preference would be for the holes to get opened up. They are for 10-32 screws, so if there is some variance in the location, it might make for a tight installation. Let me know how much of a pain this would be. Maybe we can work something out on the finishing.

Pablo

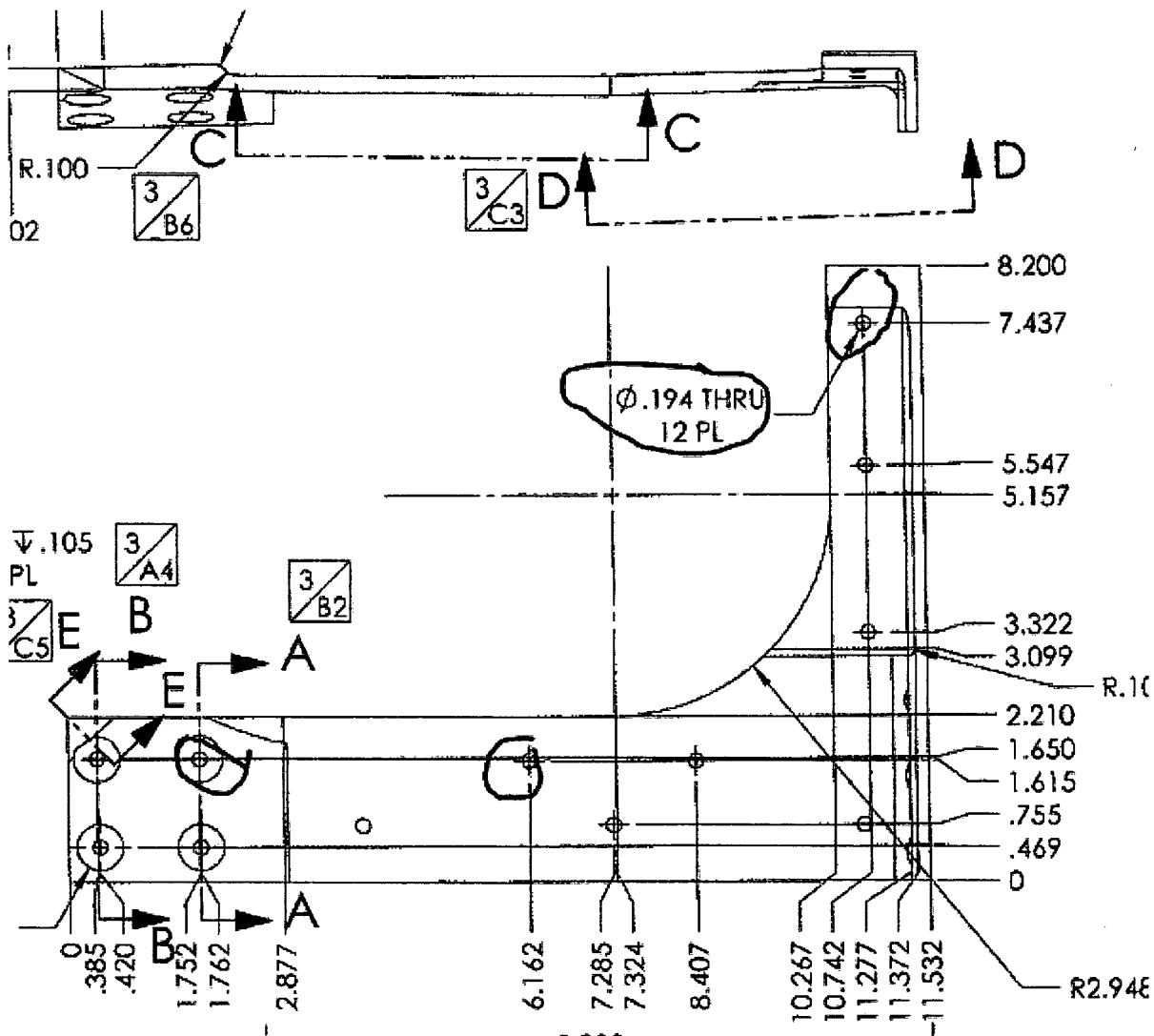
From: Jean-Luc Menard
Sent: Wednesday, December 10, 2014 5:03 AM
To: Pablo Bravo
Subject: 647.9310 DEVIATION

Hi Pablo,

We have some parts with the .194" holes coming in from .188-.190", is this acceptable?

Let me know,

JL



Jean-Luc Ménard

Production Engineering Supervisor

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